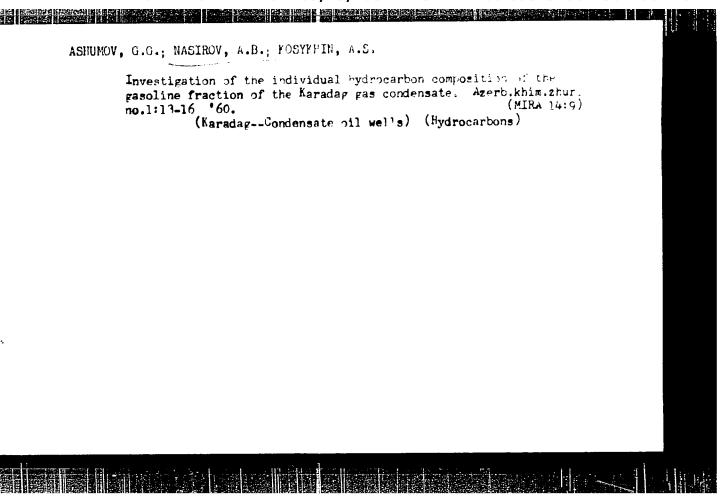
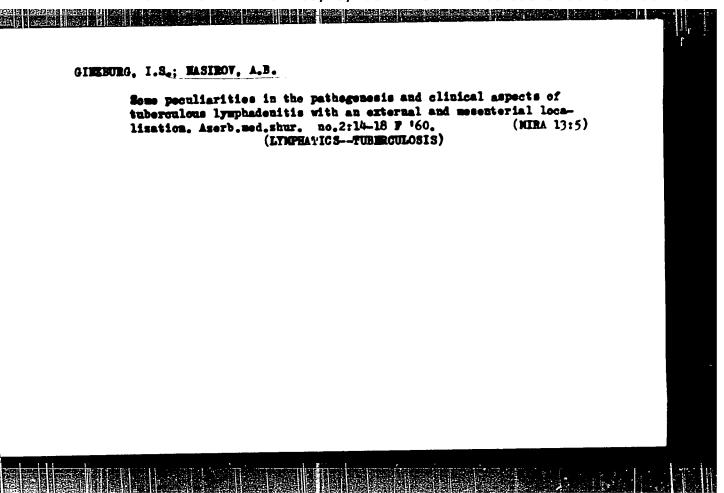
ASHUMOV, G.G.; MASIROV, A.B.; MAMAZOV, I.I.; MIRDZHAVADOVA, M.M.

Quantitative analysis of the Siasan' petroleum and Karadag gas condensate for cyclohezane, methyl- and dimethylcyclohezane to be used as mw materials in the production of synthetic fibers. Aserb.neft.khos. 38 no.12:34-36 D'59. (NIRA 13:10) (Cyclohezane) (Textile fibers, Synthetic)



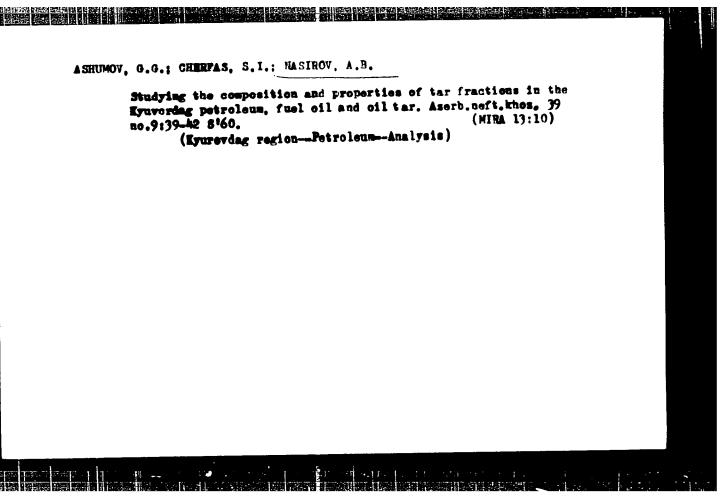


ZUL'FUGARLY, D.I.; ASHUMOV, G.G.; MUSAYEV, M.R.; MASIROV, A.B.

Macroelements in petroleum ashes of Aserbaijan [in Aserbaijani vith summary in Russian]. Aserb.khim.zhmr. no.2:149-152 '60.

(MIRA 14:8)

(Azerbaijan—Petroleum—Analysis)



ASHUMOV, G.G.; NASIROV, A.B.; ISMAILZADE, I.G.; MAMEDOV, F.A.

Individual hydrocarbon composition of the maseline fraction of Mishovdag petroleum. Aserb. khim.shur. new 27:33-39 'Gl. (MIRA 14:11) (Mishovdag—Petroleum) (Hydrocarbon)

HASIROV, A. B.; ASHUMOV, G. G.; ISMAILZADE, I. G.; KOSTKHIN, A. S.

Individual hydrocarbon composition of the gasoline fraction of Kyurovdag crudes. Aserb.khim.shur. no.4:15-21 '61.

(Kyurovdag—Petroleum—Analysis)

(Hydrocarbons)

SHARASHINIDZE, Sh.S.; ASHUMOV, G.G.; NASIROV, A.B.; ISMAIL-ZADE, I.G.;
MAMEDOV, F.A.

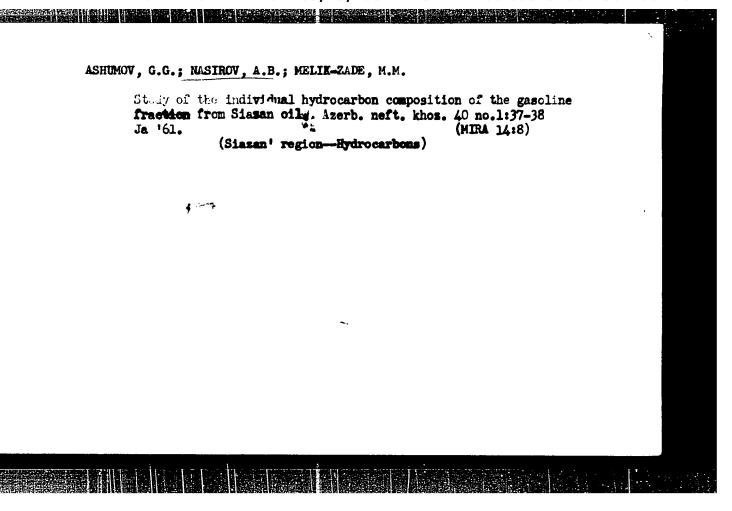
Investigating the individual composition of the gasoline fraction of Sagkhen oil of the Samgora District of the Georgian S.S.R.
Aserb.hhm.shur. no.5123-30 '61. (MIRA 15:5)

(Sangora District—Petroleum—Analysia)

ZUL'FUGARLY, D.I.; MASIROV, A.B.

Transformation of petroleum hydrocarbons. Uch. sap. AGU. Ser.
fis.-mat, i khim. nauk no.5:103-111 '61. (MIRA 16:6)

(Petroleum products)



NASIROV, A.B.; ASHUMOV, G.G.; GASANOV, N.A.

Rydrocarbon composition of gasoline fractions obtained from petroleums of Peschanyy Island. Aserb.meft.khoz. 41 no.3:36-39 (MIRA 15:8)

162. (Peschanyy Island—Gasoline)

Determining the cyclohexane hydrocarbon content in Mishovdag and Kyurovdag oils. Azerb. neft. khoz. 40 nc.5:38 My '61.

(MIRA 16:12)

ASHUMOV, G.G.; NASIROV, A.B.; ISMAILZADE, I.G.; GYUL', E.K.; MAMEDOV, F.A.

Hydrocarbon composition of gasoline fractions obtained from Karadag waxy crudes (Puta. Supra-Kirmaki sand series).

Azerb. khim. zhur. no.1:23-29 '64. (MIRA 17:5)

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Mindbol, v. n. - "Material is the stroy of satisfactor of the satisfactor

U.

USSR/General Problems of Rathology - Tumors. Comparative

Oncology - Human Neoplasms.

Abs Jour : Ref Zhur - Biol., No 19, 1958, 39731

Author : Masirov, A.M.

Inst : Azerbydzhan State Institute for the Advanced Training of

Physicians.

Title : Chronic Disorders and Cancer of the Large Intestine.

Orig Pub : Sb. tr. Azerb. gos. in-ta usoversh. vrachey, 1957, vyp 3,

157-159.

Abstract : An analysis of the case histories of 60 patients with

malignant neoplasms of the large intestine (of those, 57 carcinomas of the rectum) was made. The greatest number of cases occurred in the age group of 51-60, the smaller - in 15-30 years. Thirty-mine patients had bacterial dysentery in their past history, 2 - prolapse of

Card 1/2

NASIROV, A.M., kand.med.nauk

Pseudomycomas of appendicular in the abdominal cavity. Azerb.med. shur. no.2198-99 F 158 (MIRA 11:12)

1. Is kafedry onkologii (zav. - saslyshennyy deystel' nauki, prof. I.S. Ginsburg) Aserbaydshanskogo instituta usovershenstvovaniya vrachey (direktor - M.I. Aliyev) na base Instituta rentgenoradiologii (direktor - dotsent M.M. Alikishibekov).

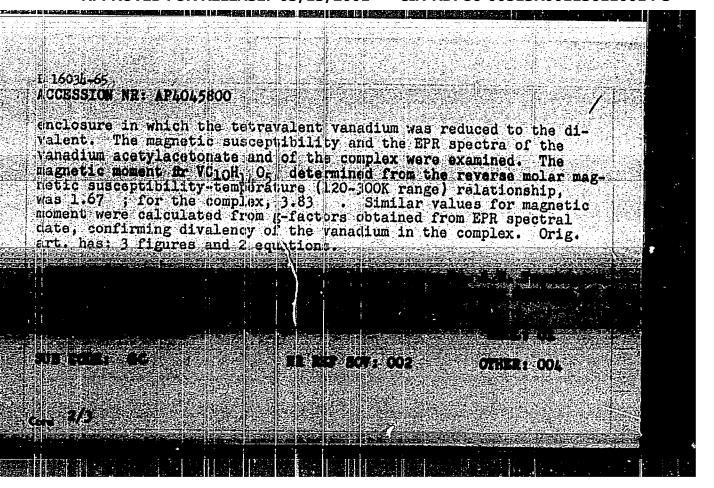
(AEDOMEN-TUMORS)

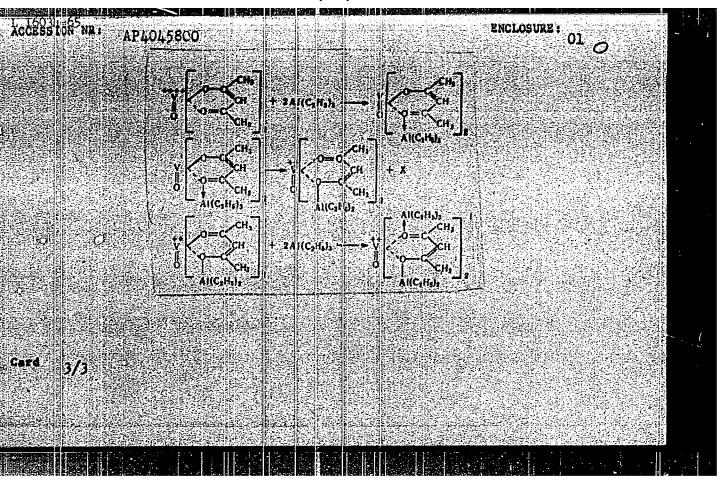
SHAKOV, I.I.; NASIROV, A.M.

Clinical-reentgenological picture of prolapse of the mucous membranes of the antrel part of the stemach into the duodemal membranes of the antrel part of the stemach into the duodemal (MIRA 14:1) bulb. Yop. onk. 6 no. 8:49-56 Ag \*60.

(STOMACH-DISRASES)

NETH HERE REEN SEE SEE EARL COMPLETE SEE SEE L 16034-65 EWT(m)/EPF(c)/EWP(j)/T Pc-4/Pr-4 AFWL/SSD/ASD(m)-3/AS(m)-2/AFETR/ ACCESSION NR: AP4045800 HASM(a)/ESD(t)\$/0062/64/000/009/1697/1700 RAEM(c) RI AUTHORS: Nasirov, F.M; Karpacheva, G.P.; Davy\*dov, B.E.; Krentsel' B.A. AITLE: Structure of the soluble complex organometallic catalyst for acetylene polymerization SOURCE: AN SSSR. Izv. Seriya khimicheskaya, no. 9, 1964, 1697-1700 PDPIC TAGS: acetylene polymerization catalyst, complex organometallic catalyst, structure, chemical behavior, triethylaluminum, vanadium acetylacetonate, tristhylaluminum vanadium acetylacetonate catalyst, tetravalent vanadium, divalent vanadium, magnetic susceptibility, EPR spectrum, magnetic moment, g-factor ABSTRACT: The structure and the chemical nature of the active centers of the acetylene polymerization catalyst complex formed by reaction of triethylaluminum with vanadium acetylacetonate were examined. The catalyst, prepared by mixing VC10H1,05 with a fourfold excess of Al(C2H5)3 in benzene at room temperature, appeared homogeneous. It was proposed that the formation of the active catalytic complex took place according to the reaction shown in the 1/3



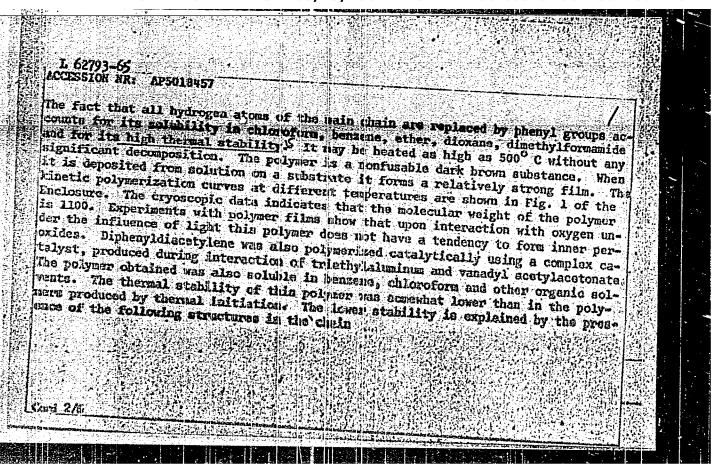


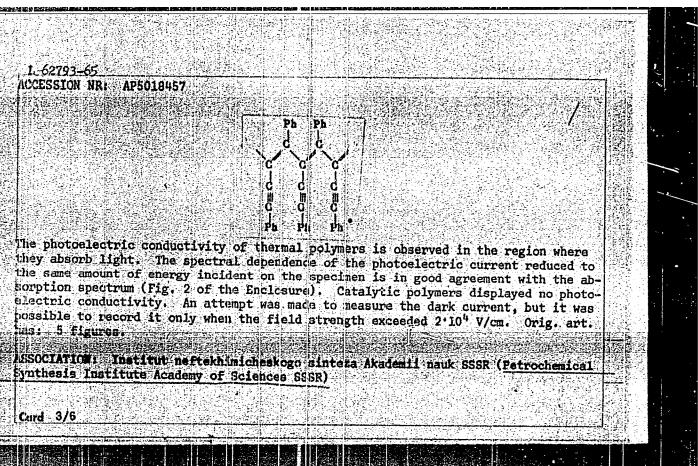
NASIROV, F.M.; KRENTSEL', B.A.; DAVYDOV, B.E.

Acetylene polymerization process with a soluble catalytic system based on AlEt, and WO (acetyl acetonate)<sub>2</sub>. Isv. AN SSSR. Ser. khim. no.5:1009-1016 '65.

(MIRA 18:6)
1. Institut neftekhimicheskogo sinteza imeni Topchiyeva AN SSSR.

	CCESSION NR: AP5018457	(1)/%/xm((d) Pc-li/Pr-li/Ps-li Ww/JAJ/RM, UR/0364/65/001/007/0876/0880
A	OTHOR: Davydov, B. E. 1 Demidova, Cozenshteyn, L. D.	621:315.592:547 3. H. Hasirov, F. H.; Pirtakhulava, R. N.; 53
T	ITIE: Synthesis of polydiphenyldi roperties	icatylenous and their electrical and phy cal
S	ERCE: Elektrokhiniým, v. 1, m. 7	, 1965, 876-880
71	(数据) 数据的数据数据 电电路电路 医电路性性 化二硫酸 医二硫酸 医二硫酸 医二硫酸 化二硫酸 化二硫酸 化二硫酸 化二硫酸	s, acetylene, thermal stability, catalysis,
AI 11	STRACT: The article is concerned	with the investigation of the properties of
		ylene, having the following at mature  Pa Pa Pa
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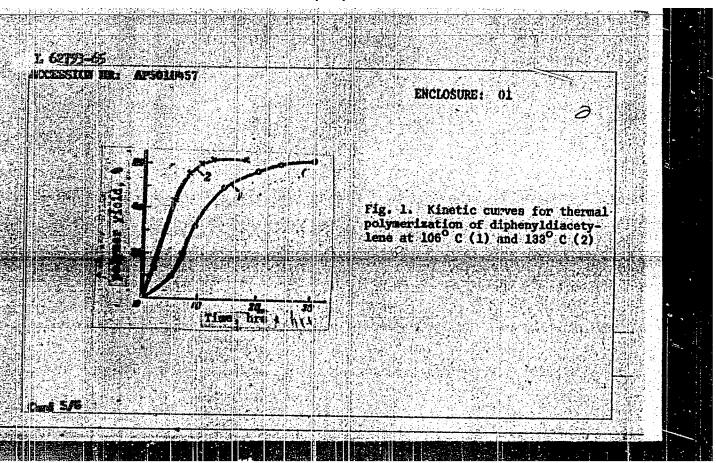


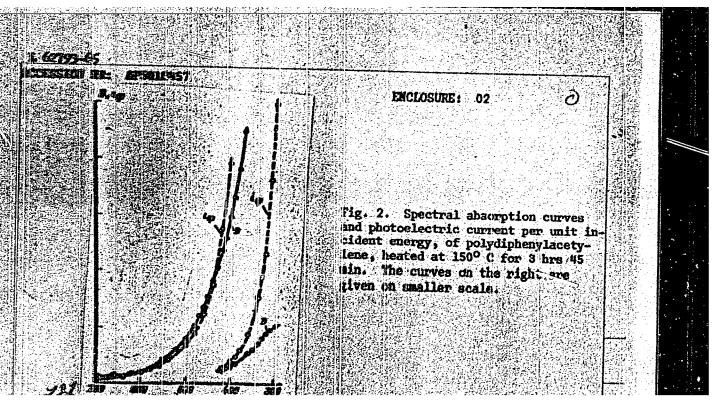


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l 62793-65 ACCESSION NR: AP5618457 Institut poluprovodníkov Akad Sciences SSSR)	deill nauk SSER (Institute of	F Semiconductors Academ	y of
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EWP(j)/EWT(m)/TSOURCE CODE: UR/0190/66/008/006/1138/1138 ACC NR: AP6019550 44 Nasirov, F. M.; Lelyukhina, Yu. L.; Krentsel', B. A. AUTHOR: B ORG: none Polymerization of acetylene in benzene on the Al(C2H5)Cl2 catalyst SOURCE: Vysokomolekulyarnyye soyedineniya, v. 8, no. 6, 1966, 1138 polymerization, acetylene, benzene, polystyrene, Polymerization TOPIC TAGS: CHTALYST ABSTRACT: Polymerization of acetylene in benzene on the  $A1(C_2H_5)C1$  catalyst yielded a white powder which was soluble in chlorinated hydrocarbons and certain other solvents. The product was identified by IR spectroscopy as polystyrene. 7 Measurements of the intrinsic viscosity of the polymer in toluene at 25C indicated that its molecular weight is comparatively low. It is suggested that in the experiment, benzene is vinylated by acetylene to form styrene which is immediately polymerized: CH=CH<sub>1</sub> -CH-CH<sub>2</sub>-CH-CH<sub>4</sub>-UDC: 66.095.264+678.76 Card

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MASIROV, M. (Sungait, Azerbaydzhanskaya SSR)

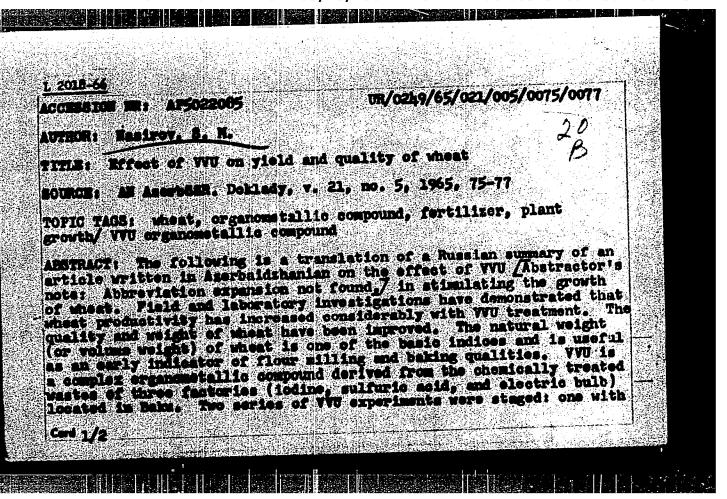
Together with the workers, Fosh. delo 4 no. 12:25 D \*58.
(MIRA 11:12)

(Factories -- Fires and fire prevention)

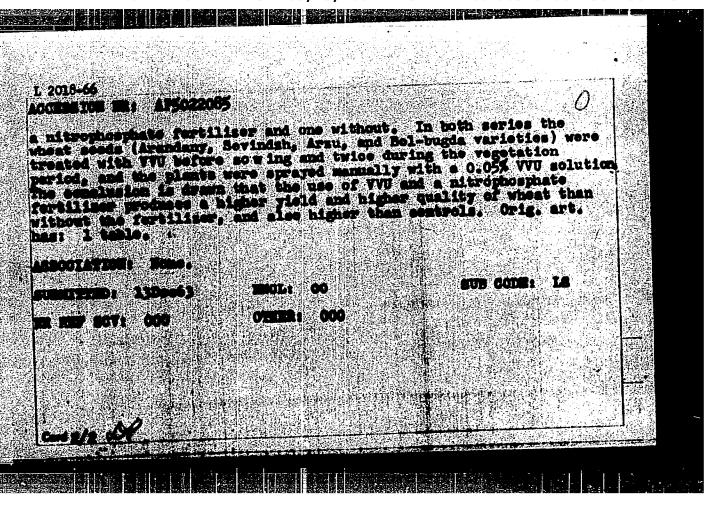
BORODKIN, Yu.S.; NASIROV, S.Kh.

Electroencephalographic analysis of the effect of pyrazoledicarboxyllo acids on the central nervous system. Farm. i toks. 28 no.1:2-13 Ja-F \*65. (MIRA 18:12)

1. Oldel farmakologii (zav. - dyestvitel nyy chlen AMN SSSR prof. S.V.Anichkov) Instituta eksperimental noy meditsiny AMN SSSR, Leningrad. Submitted November 5, 1963.



"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001136110014-3



NASIROV, YAN.

SOV/124-57-5-5293

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 5, p 27 (USSR)

AUTHORS: Karasharly, K. A., Kerimov, I. G., Nasirov, Ya. N., Rozlovskiy, A. I.,

Shaulov, Yu. Kh.

TITLE: On the Conditions Conducive to the Inception of Instability of Normal

Combustion (K voprosu ob usloviyakh vozniknoveniya neustoychi-

vosti normal'nogo goreniya)

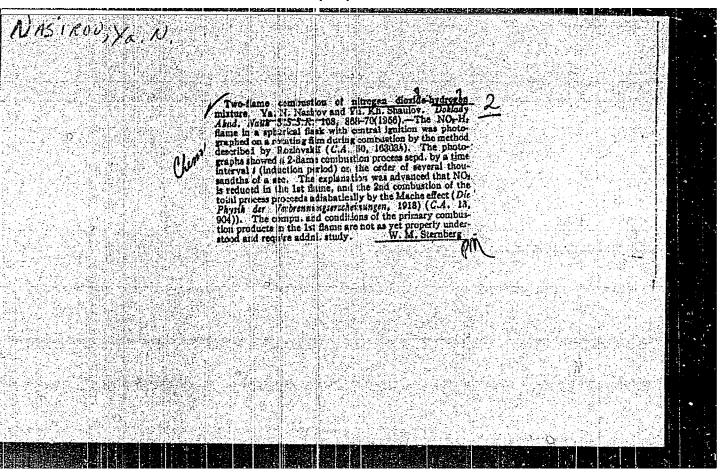
PERIODICAL: Dokl. AN AzSSR, 1955, Vol 11, Nr 12, pp 819-823

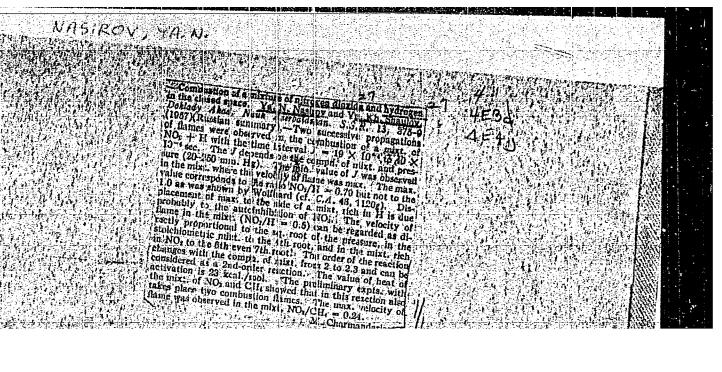
ABSTRACT: An experimental investigation of flame propagation in methane-oxygen

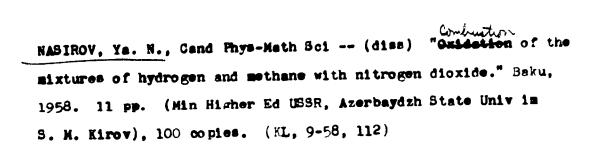
and acetylen-oxygen mixtures aimed at an evaluation of the lower boundary of Reynolds numbers at which the transition zone from normal to detonational combustion begins. The experiments were made in transparent rubber balloons up to 20 liters in volume. No detonation was observed during the combustion of the methane-oxygen mixtures; the beginning of flame acceleration corresponds to Reynolds numbers of the order of 4 to 10 x 10<sup>4</sup>. Bibliography: 5 references.

B. V. Raushenbakh

Card 1/1







#### "APPROVED FOR RELEASE: 03/13/2001 CIA-

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65848

sov/81-59-22-77802

Translation from: Referativnyy zhurnal, Khimiya, 1959, Nr 22, p 73 (USSR)

AUTHOR:

Nasirov, Ya.N.

TITLE:

Burning of Mixtures of Nitrogen Dioxide With Hydrogen and Methane in

a Closed Volume

PERIODICAL:

Tr. in-ta fiz. i matem. AS AzerbSSR, 1958, Vol 9, pp 138 - 154 (Azerb.

summary)

ABSTRACT:

The normal flame rate (NR) in  $\rm H_2\text{-NO}_2$  mixtures was measured by the photographic method in a spherical flask with central kindling at  $\propto 1-1.75$ . The NR maximum (2 m/sec) corresponds to  $\propto =1.58$  which differs from the data obtained earlier (RZhKhim, 1954, Nr 5, 17830), according to which the NR maximum is equal to 2.5 m/sec at  $\propto =2$ . NR increases with the pressure  $\sim p^a$ , where a=1/2, 1/4, 1/6, at  $\propto =1$ , 2 and 2.5, respectively. Diluting the mixture with nitrogen, the author determines the activation energy (23 kcal/mole) from the NR decrease with the lowering of the flame temperature. In the case of diluting the mixture with another combustion product (NO),

Card 1/2

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65048

SOV/81-59-22-77802

Purning of Mixtures of Nitrogen Dioxide With Hydrogen and Methane in a Close! "plume

a considerable inhibiting effect of NO on the reaction in the flame is observed side-by-side with the lowering of the temperature. Photographing of  $CH_{\parallel}$ -NO<sub>2</sub> mixtures under the same burning conditions detected the propagations of two consecutive flames, the interval between which is at a minimum in mixtures with a maximum NR value.

A. Sokolik

Card 2/2

BANIROV, M.Ya.; ABBULLAYEV, G.B.; HASIROV, Ya.N.; TALIBI, M.A.

Studying the effect of certain factors on the characteristics of selenium photocells. Isv. AN Aserb. SSR. Ser. fiz.-mt. i tekh. nauk no.5:65-74 '59. (MIRA 13:3)

(Selenium cells)

RAKIROV, M.Ya.; ABDULLAYEV, G.B.; HASIROV, Ya.H.; TALIBI, M.A.

Effect of the degree of crystallization of selenium on the characteristics of photoelectric cells. Izv. AH Azerb. SSR Ser. fis.-mat. 1 tekh. nauk no.5:93-99 '59. (MIRA 13:3)

(Selenium cells)

# **S/194/61/00**0/006/035/077 **D201/D302**

AUTHORS:

Abdullayev, G.B., Nani, R.Kh. and Nasirov, Ya.N.

TITLE:

Investigating the thermal and electric properties

of indigenous cobaltite

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 6, 1961, 2, abstract 6 D8 (Izv. AN AzerbSSR, Ser. fiz.-matem. i tekhn. n, 1960, no. 3, 55-58)

(Azerbaydzhan summary)

TEXT: Temperature dependence was investigated of electric conductance  $\sigma$ , thermal conductivity K and of thermal emf  $\alpha$  of indigenous cobaltite,  $\sigma$  was measured in the temperature range 20-650°C, at room temperature  $\sigma$  has the value 12.8 x 10<sup>-2</sup> ohm<sup>-1</sup> cm<sup>-1</sup>. With an increase of temperature to 530°C,  $\sigma$  increases 5 times and decreases with further temperature increase. At room temperature  $\alpha$  is 33.0 microvolt per degree. The maximum value of  $\alpha$  equal to 90 microvolt per degree corresponds to a tempera-

Card 1/2

Investigating the thermal...

S/194/61/000/006/035/077
D201/D302

ture of 480°C. With temperature increasing from room temperature to 100°C the k of cobaltite increases 5 references Abstracter's note: Complete translation

ABDULLAYEV, G.B.; BAKIROV, M.Ya.; GASYMOV, R.B.; NASIROV, Ya.N.

Investigating the formation of a p—n junction in selenium photocells. Part 1: Effect of the material of the top electrode.

ISV. AN ASERD. SSR. Ser.fis.—mat. 1 tekh. nauk no.4:66-72 '60.

(MIRA 14:3)

(Photoelectric cells) (Selenium)

ARDULLAYEV, G.B.; GASYMOV, R.B.; BAKIROV, M.Ya; NASIROV, Ya.M.

Heat-resistant selenium photocells. Izv.AM Azerb.SSR.Ser.fiz.mat.1 tekh.nauk no.5:79-84 '60. (MIRA 14:4)

(Photoelectric cells) (Selenium)

14:5300

s/058/62/000/003/054/092 A061/A101

AUTHORS:

Abdullayev, G. B., Bakirov, M. Ya., Gasymov, R. B., Nasirov, Ya. N.

TITLE:

Selenium photocells with CdO, CdS, CdSe, and CdTe layers

PERIODICAL: Referativnyy zhurnal, Fizika, no. 3, 1962, 22, abstract 3G184 ("Izv. AN AzerbSSR. Ser. fiz.-matem. i tekhn. n.", 1960, no. 6,

77-83, Azerb. summary)

Selenium photocells were developed, in which CdO. CdSe, CdS and CdTe films about  $5 \cdot 10^{-5}$  cm thick were sputtered in vacuum onto the selenium crystal surface before mounting the upper electrode. The photo-emf and the short-circuit current were determined as functions of exposure to light. The temperature and spectral characteristics of the photocells were also determined. The photo-emf was found to arise by the contact of two semiconductors with different types of conductivity. The upper electrode material is not important here.

Je

[Abstracter's note: Complete translation]

Card 1/1

CIA-RDP86-00513R001136110014-3" APPROVED FOR RELEASE: 03/13/2001

ABULLATEV, 0.3., RAKIROV, M.Ya., CHILBE, I.Eh., MASIROV, Ya.I.

Refect of bromine on the characteristics of selenium photocells.
Dokl.AM Aserb.SER 16 no.4:323-326 '60. (MIRA 13:7)

1. Institu fisiki AM Aserbaydshanskoy SER.
(Bromine) (Photocelectric cells)

\$/058/62/000/005/092/119 A061/A101

AUTHORS:

Antonov, V. B., Nani, R. Kh., Nasirov, Ya. N.

TITLE:

A study of thermoelectric properties of natural cobaltite single

crystals

PERIODICAL: Referativnyy zhurnal, Fizika, no. 5, 1962, 33, abstract 5E264 ("Izv. AN AzerbSSR. Ser. fiz.-matem. i tekhn. n.", 1961, no. 4,

33-36 Azerb. summary)

As is shown, natural cobaltite single crystals display typical semiconductor properties. The activation energy is of the order of 0.762 ev at 310 - 560 K. 65 ev at 180 - 280 K, and of the order of 0.2 ev at 120 - 160 K. At  $T \le 110^{\circ} K$ ,  $\triangle E = 0$ . The coefficient of thermo-emf at room temperature is  $\sim 90 \,\mu$ . v/deg; on a rise of temperature it drops to ~50 \( \mu \text{v/deg} \); at 150 °C and above, up to 500°C, it remains practically constant.

[Abstracter's note: Complete translation]

Card 1/1

CIA-RDP86-00513R001136110014-3" **APPROVED FOR RELEASE: 03/13/2001** 

AHTONOV, V.B.; NAMI, R.Kh.; NASIROV, Ya.N.

Physical properties of ternary segiconductor compounds. Izv. AN
Aserb. SSR. Ser.fiz.-mat. i tekh.nauk no.5:75-78 '61. (MIRA 15:2)
(Semiconductors)

# Study of monocrystalline n-TISe and its rectifying properties. G. A. Akhundov, G. B. Abdulayev, I. G. Aksianov. (Not presented).] Electro-physical properties of monocrystalline TISe. G. A. Akhundov, G. B. Abdulayev, G. D. Guseynov, N. Kh. Aliyeva. Investigation of the electrical properties of germanium telluride. J. J. Abdulayev, V. B. Antonov, Ya. N. Nasirov. On studies of and some properties of monocrystalline GaTe and GaS. G. A. Akhundov, G. B. Abdulayev, N. A. Gasanova, F. I. ismailov. [Investigation of some physical properties of the monocrystalline compounds CuSbS2 and CuSbSe2. G. B. Abdulayev, R. Kh. Nani, Ya. N. Nesirow, T. G. Osmanov. Emport presented at the 3rd National Conference on Semiconductor Compounds, Kishinev, 16-21 Sept 1963

AMDULIANEV, G.B.; ANTONOV, V.B.; NANI, R.Kh.; NASIROV, Ya.M.

Boss properties of CuShSe<sub>2</sub> single crystals. Trudy Inst. fis. AM Aserb.

AMRA 16:4)

(Copper-antimony-selenium alloys)

(Crystallography)

\$/0233/63/000/006/0083/0086

AUTHORS: Abdullayev, G.B.; Mani, R.Kh.; Masirov, Ya.M.

TITLE: Investigation of the physical properties of ternary semiconductor compounds. II. Certain properties of CuSbS sub 2 monocrystals

SOURCE: AN AzerbSSR. Isvestiya. Seriya fis.-matem. i tekhn. nauk, no. 6, 1963, 83-86

TOPIC TAGS: semiconductor, ternary compound, physica! property, CuSbS sub 2, monocrystal, polycrystal, preparation, thermoelectric property, synthesis, thermoelectremotive force, energy of activation, some melting, heat conductivity, electric conductivity

ABSTRACT: Samples of CuSbS, polycrystals and monocrystals were prepared and their thermoelectric properties investigated. CuSbS, was prepared by elementary synthesis, and heating with agitation at 1500K for 8-10 hours under 10-4 mm Hg. vacuum. The material, remelted at 1200K, was uniform with no traces of crystals and showed semiconductor properties. Its electric conductivity increases from 0.08 to 7.0 ohm-1 cm-1 with an increase in temperature from room

Cord\_ 1/2.

# ACCESSION NR: AP4027709

temperature to 700K while its thermoelectromotive force decreases with temperature from 950 to 120 microvelts/°K from room temperature to 700K. The energy of activation of the polycrystalline material is  $\Delta E = 0.24$  ev. CuSbS<sub>2</sub> monocrystals were obtained by some melting under 2 atmosphers argon with supplementary heating in the non-melting some to 10-15K below the melting temperature of the compound. For the monocrystals at room temperature, electric conductivity is 0.024 ohm<sup>-1</sup> cm<sup>-1</sup> and thermo e.m.f. is 1200 microvolts/°K. Melting temperature is 535C. It was specifically determined that the electric conductivity increases with temperature ( E in the 300-500K range = 0.8 ev.), and that the thermo e.m.f. drops with an increase in temperature; monocrystals and polycrystals follow essentially the same relationship. It was further found that the heat conductivity decreases from 80 to 300K and then increases; its minimum is at room temperature. Orig. art. has: 1 table and 4 figures.

ASSOCIATION: None

SUBMITTED: 00

DATE ACQ: 17Apr64

ENCL: 00

SUB CODE: PH

NR REF SOV: 005

OTHER: 002

L 21124-65 EWT(m)/EWF(b)/EWP(t) IJP(c)/ASD(a)-5/AS(mp)-2/ESD(gs) REW/JD ACCESSION NR: AP5001564 S/0233/64/000/004/0083/0087

AUTHORS: Antonov, V. E.: Nasirov, Ya. N.

TITHE: Concerning the structure of the valence band in germanium telluride

SOURCE: AN AzerbSSR. Izvestiya. Seriya fiziko-tekhnicheskikh i matematicheskikh nauk, no. 4, 1964, 83-87

TOPIC TAGS: germanium telluride, valence band, band structure, thermal emf, Hall constant, carrier density

ABSTRACT: The anomalies in the temperature dependence of the thermal emi of germanium telluride at high temperatures is explained by making use of a model wherein the valence band consists of two subbands displaced relative to each other by an energy gap  $\Delta \varepsilon$ ; these bands have different effective masses. Equations are derived for sub-bands have different effective masses. Equations are derived for the Hall constant and thermal emf on the basis of this model, and are

Cord 1/3

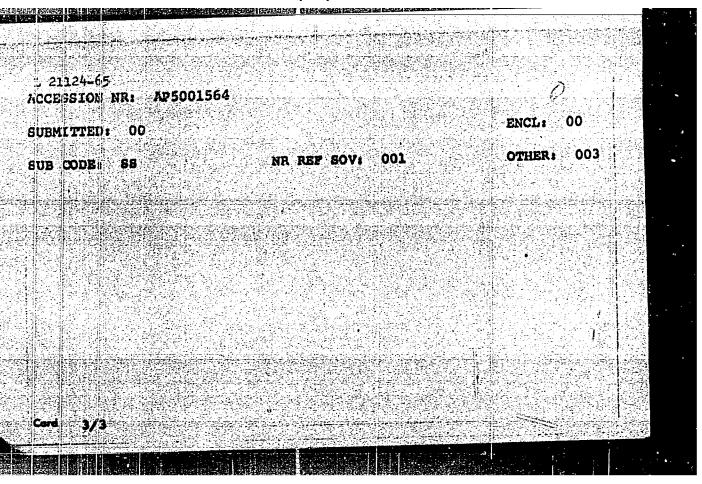
L 21124-65 ACCESSION NR: AP5001564

compared with the results obtained for a GeTe sample with carrier density 5.5 x 10<sup>20</sup> cm<sup>-3</sup> (N. B. Kolomoyets et al., FTT, v. 6, No. 3, 1964, 706-713). Fairly good agreement between theory and experiment can be obtained if the value of the gap is assumed to lie between 0.35 and 0.4 eV and the ratio of effective masses is equal to 17. Similar calculations were made also for a carrier concentration 8.0 x 10<sup>20</sup> cm<sup>-3</sup>. Although the agreement is far from perfect, this model affords a better explanation of the experimental data than earlier models. The slow rise in the thermal emf with increasing temperature up to about 300K and the sharp increase above 300K cannot be reconciled with the model of a simple valence band. "The authors thank Professor G. B. Abdullayev, B. M. Askerov, and F. M. Gashimzade for interest in the work and for valuable advice." Orig. art. has: 3 figures and 11 formulas.

ASSOCIATION: None

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001136110014-3



8/0048/64/028/006/1096/1099

AUTHOR: Abdullayev, G.B.; Nani, R.Kh.; Nasirov, Ya.N.; Osmanov, T.G.

TITLE: Investigation of some physical properties of copper antimony sulfide and copper antimony selenide single crystals Report, Third Conference on Semiconductor Compounds held in Kishinev 16 to 21 Sep 19637

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v.28, no.6, 1964, 1096-1099

TOPIC TAGS: semiconductor, semiconductor property, copper compound, antimony compound, sulfur compound, selenide compound, single crystal study

ABSTRACT: CuSbS<sub>2</sub> and CuSbSe<sub>2</sub> were synthesized, single crystals were grown, some physical properties of the materials were measured, and the results are presented graphically. The reagents were spectroscopically pure sulfur, electrolytic copper, 99.99% selenium, and "grade Su-000" antimony. Synthesis was by melting in vecuo with mechanical vibration. The melt was cooled slowly to 1500°K and held at that temperature for 8 to 10 hours. The ingots were homogenized by remeiting at 1200°K. Single crystals were produced by some refining in an argon atmosphere with the use of an auxiliary heater. Sighteen to twenty passes were made at 12 mm/hour. X-ray

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diffraction studies showed the resulting specimens to be single crystals with somewhat distorted structure due, possibly, to the anisotropy of the thermal expansion coefficient. The electric conductivity, thermal conductivity, thermal emil and Hall coefficient were measured over various temperature ranges between 80 and 700°K. It was possible to measure the Hall coefficient of the sulfide only at room temperature because of the low mobility of the current carriers. The electric conductivity of both compounds increased with increasing temperature over the complete range investigated. The activation energy in the sulfide was 0.25 eV below 500°K and 0.75 eV above this temperature. In the selenide the activation energy was 0.16 eV below 350°K and 0.43 eV above 400°K. The slope of the resistivity-temperature curve for the selenide was very small between 350 and 400°K. The increase of activation energy at the higher temperatures was not observed in the polycrystalline Enterials. The thermal emf of both compounds decreased monotonically with increasing temperature. The thermal conductivity of both materials decreased with increasing temperature at low temperatures and increased with increasing temperature at high temperatures. The minimum occurred at 273°K for the sulfide and 300°K for the selenide The behavior at low temperatures is ascribed to Cu-Sb ordering, and that at high temperatures to energy transport by electron-hole pairs. The compound with the lower molecular weight had the greater thermal conductivity, in accord with the views

Card 2/3

of L.S.Stil'bans, B.A.Yefimova and L.M.Stavitskaya (Fiz.tverdogo tela,1,1325,1959). The mobility of the current carriers in the selenide was proportional to  $T^{-3/2}$  at the lower temperatures and to  $T^{-5/2}$  at the higher. Orig.art.has: 9 figures and 1 table.

ASSOCIATION: none

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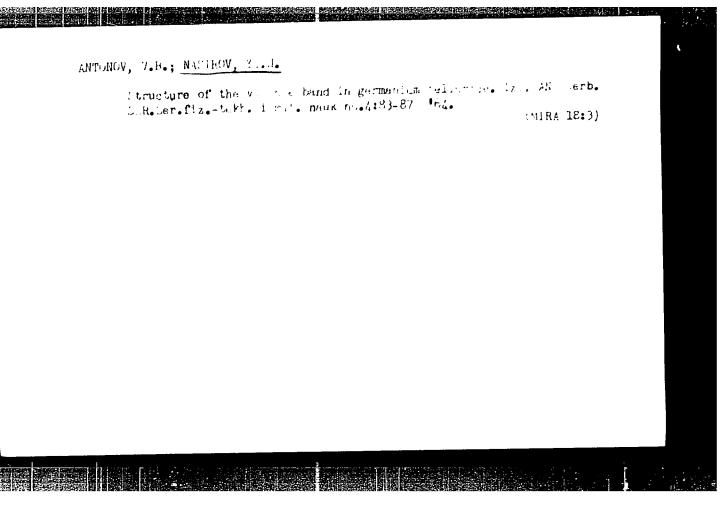
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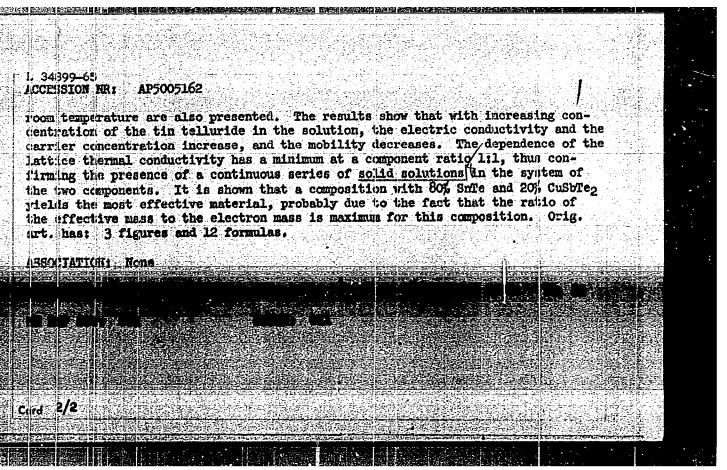
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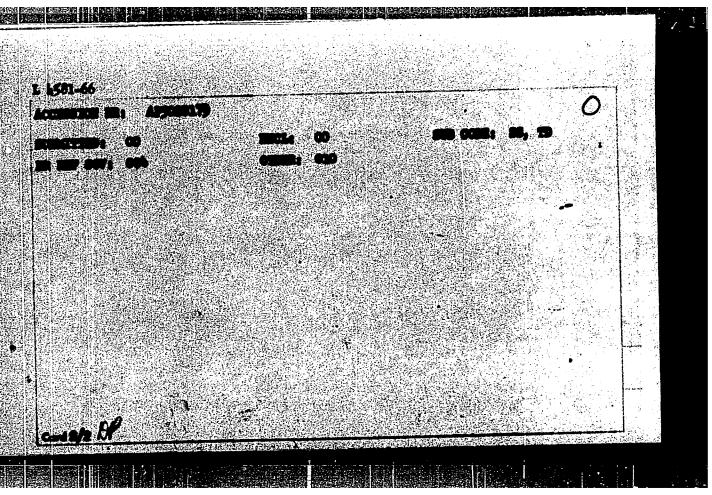


348 CCEE	99-65 ENT(1)/EWT(m)/EWG(m)/T/EMP(t)/EWP(b)/EWA(c) PZ-6/Ps-4 IJP(c) RDW/ SION NR: AP5005162 JD/AT B/0233/64/000/005/0069/0072	
UTHC	R: Nina, R. Kh.; Masirov, Ya. N.; Osmanov, T. G. 40	
TIL	: Thermoelectric properties of the system Custife2 SiTe	
our iauk	E: AN AzerbSSR. Izvestiya. Seriya fiziko-matematicheskikh i tekhnicheskikh , no. 5, 1964, 69-72	
OPI	TAGS: thermoelectric property, <u>telluride</u> compound, thermocouple, thermal thermal conductivity	
BST of t be m as s ical	RACT: Interest in the possible use of alloys of this type for the construction hermocouples is due to the fact that a continuous series of solid solutions can ade up of the components. The authors derive an equation for the thermal emf function of the temperature and discuss the discrepancy between the theoretand experimental results. It is shown that in the case of a two-band model and experimental results.	
	thermal emf can be expressed as a climear limetric.  entrations. Plots of the electric conductivity, the lattice temperature con- entrations. Plots of the electric conductivity, and the composition at ivity, and the carrier concentration and mobility against the composition at	



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L 04976-67 EWT(1)/EWT(m)/T/EWP(t)/ETI IJP(c) JD/JG/AT ACC NR AP6030801 SOURCE CODE: UR/0249/66/022/005/0012/0013 AUTHOR: Abdullayev, G. B.; Nasirov, Ya. N.: Feyziyev, Ya. S. ORG: Institute of Physics, AzerbSSR (Institut fiziki A AzerbSSR) TITLE: Effect of partial substitution of lanthanum for tin on the thermoelectrica <u>properties</u> of SnTe AN AzerbSSR. Doklady, v. 22, no. 5, 1966, 12-13 SOURCE: TOPIC TAGS: tin telluride, lanthanum telluride, telluride, thermoelectric property ABSTRACT: Thermoelectric properties of homogeneous, single-phase specimens of [SnTe] $_{1-x}$ -[LaTe] alloy, where x is equal 0.02-0.08, have been investigated. The curve of composition dependence of thermal emf, at room temperature, was found to have a maximum of about 49  $\mu\nu$ /°k at x = 0.02 compared to 20  $\mu\nu$ /°k for SnTe, where the concentration of holes drops to a minimum of  $3.47 \cdot 10^{19}$ /cm<sup>3</sup> compared to  $2 \cdot 10^{21}$  cm<sup>-3</sup> for SnTe. The lattice heat conductivity changes correspondingly from 6.2·10-3 cal/cm deg-sec for SnTe to 5.4·10<sup>-3</sup> cal/cm·deg·sec. The hole mobility reaches a maximum of 1080 cm/v·sec at x = 0.01, compared to 25 cm/v·sec for SnFe. It is assumed that partial replacement of tin by lanthanum brings about a recovery of the SnTe lattice and simultaneously generates the new defects in connection with formation of SnTe-LaTe solid solutions. Orig. art. has: 3 figures. SUB CODE: 11/ SUBM DATE: 12Mar65/ ORIG REF: 001/ OTH REF: [WW]

THE REPORT OF THE PERSON OF TH L 07251-67 ENT(1)/ENT(m)/ENP(w)/ENP(t)/ETI IJP(c) NT/QT ACC NR: AP6028920 SOURCE CODE: UR/0233/66/000/001/0090/0095 AUTHOR: Antonov, V. B.; Nasirov, Ya. N. ORG: none 27 27 Thermoelectric properties of the solid solution GeTe-CuSbTe2 TITLE: SOURCE: AN AzerbSSR. Izvestiya. Seriya fiziko-tekhnicheskikh i Matematicheskikh nauk, no. 1, 1966, 90-95 TOPIC TAGS: germanium alloy, telluride, copper containing alloy, antimony alloy, solid solution, thermoelectric property, carrier density, energy band structure, temperature dependence ABSTRACT: In view of the use of the solid solution in question for thermoelectric converters, the authors have investigated the thermoelectric properties of solid solutions containing 98, 96, 94, and 92% GeTe, whose microstructrue reveals that they are single-phase. Plots were prepared of the electric conductivity, the thermoelectric power, the thermal conductivity, and the carrier density as functions of the solidsolution composition at room temperature. At low concentrations (up to ~4 mol. %) of CuSbTe2, a sharp decrease of the carrier density was observed. With increasing content of CuSbTe2, the carrier density decreased less sharply. The carrier mobility, calculated on the basis of measurements of the Hall constant, increased by more than double up to 4 mol. 4, and then started to decrease. This is attributed to the filling of the vacancies by the atoms of copper and antimony. The temperature dependences of 1/2 Card

L 07251-67 ACC NR AF6028920 the thermoelectric properties were measured in the interval 300 - 800K and were found to be a complicated function of the temperature for all four compositions of the solid solution. This is attributed to the complicated structure of the valence band. The proposed valence band structure is presented and the irregularities in the temperature dependence are explained on this basis. The temperature dependence of the electric conductivity and of the Hall mobility are also measured and are shown to exhibit a similar anomalous character connected with the complexity of the valence band. The Hall mobility exhibits a regular variation of the form  $u \sim T^{-X}$ , where x ranges from -1.6 for the solid solution having the lowest carrier density (92% GeTe) to -3.1. The former is close to the theoretical value (x = -3/2) for the case of scattering by thermal oscillations of the crystal lattice. It is thus concluded that the carrier mobility in the solid solution is governed by two mechanisms of scattering, by the lattice defects and by the acoustic lattices vibrations. With increasing temperature, scattering by acoustic vibrations prevails. The authors thank Professor G. B. Abdullayev for interest in the work and for valuable advice. Orig. art. has: 7 figures. ORIG REF: OO1 SUBM DATE: 00/ SUB CODE: Card 2/2 11

L 10335-67 SOURCE CODE: UR/0249/66/022/002/0011/0013 ACC NR. AP6028211 25 AUTHOR: Abdullayev, G. B.; Nasirov, Ya. H.; Osmanov, T. G. ORG: Institute of Physics (Institut fiziki) TITLE: Influence of partial replacement of tin by Si, Ge, and Pb on the electric and thermal properties of SnTe SOURCE: AN AzerbSSR. Doklady, v. 22, no. 2, 1966, 11-13 TOPIC TAGS: tin compound, telluride, semiconductor carrier, thermoelectric power, temperature dependence, impurity center, carrier density, solid solution ABSTRACT: The purpose of the study was to determine the effect of impurities on the anomalous behavior observed in the concentration and temperature dependences of the thermal emf (a) of SnTe. The investigations were carried out on single-phase and homogeneous samples of composition [SnTe]1-x-[SiTe]x, [SnTe]1-x-[GeTe]x, and [SnTe]1-x -[PbTe]x with x = 0.02 - 0.08. Measurements of the dependence of the thermal emf on the composition at room temperature show that for all three substitutions a maximum is observed at x = 0.02. With increasing x, the thermal emf first decreases and then rises again until it reaches at  $x \ge 0.1$  a value corresponding to the solid solution of the corresponding system. A similar behavior is observed in the dependence of the carrier density (n) on the composition at room temperature, which exhibits a minimum at x = 0.02. The higher the atomic weight of the substituting element, the lower the carrier density, which decreases from 2.1 x  $10^{21}$  cm<sup>-3</sup> to 6 x  $10^{19}$  cm<sup>-3</sup> when the tin is Card 1/2

L 10335-67 ACC NR: AP6028211

replaced with lead. An anomalous extremum is observed also at x=0.02 in the dependence of the thermal conductivity of the lattice on the composition at room temperature. The results are attributed by the authors to a simultaneous filling of the vacancies due to the tin as the tin is replaced by the other substances, and to the formation of a solid solution of the type  $A^{IV}_BVI$   $A^{IV}_BVI$ , which occurs simultaneously as a result of partial substitution of the tin. At values x<0.02, the predominant process is that of filling of the vacancies, while at 0.02 < x < 0.10 the predominant process is formation of the solid solution, which leads increase in the concentration of the effects. The maxima on the dependence of the lattice thermal conductivity on the composition are due to healing of the defects. Slight differences occurring when lead is used as the substituting substance are attributed to the large mass and the ionic radius of the latter. Orig. art. has: 5 figures.

SUB CODE: 20/ SUBM DATE: 19Nov65/ OTH REF: 003

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UR/0249/66/022/004/0026/0028 ACC NR BOURCE CODE: AP6033369 AUTHOR: Abdullayev, G. B.; Masirov, Ya. H.; Osmanov, T. G. ORG: Institute of Physics (Institut fisiki) TITLE: Thermoelectric properties of certain solid solutions of SnTe-Cu(As, Sb, Bi)Te, SOURCE: AM AzerbSSR. Doklady, v. 22, no. 4, 1966, 26-28 TOPIC TAGS: thermoelectric property, solid solution, tin compound, telluride ABSTRACT: The authors study the behavior of SnTe in solid solutions of  $[SnTe]_{1-x}$ [CuSbTe<sub>2</sub>]<sub>x</sub> and [SnTe]<sub>1-x</sub>-[CuBiTe<sub>2</sub>]<sub>x</sub> at x=0.01-0.10. The ratio between the components is based on molecular percent. These same systems can be considered as SnTe-Cu<sub>2</sub>Te-AS<sub>2</sub> (Sb2, Bi2)Te2 solid solutions. All of the specimens used in the study were homogeneous and single-phase. The results show that two processes can take place in forming a system of multiple solid solutions using SnTe as a base with a small amount of the second component, specifically Cu(As, Sb, Bi)Te2: 1. atoms or groups of atoms reduce defect concentration from lead in SnTe which is explained by the reduction in current **Cord** 1/2

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SOURCE CODE: UR/0249/66/022/006/0013/0014 ACC NR: AP6034404 AUTHOR: Abdullayev, G. B.; Masirov, Ya. N.; Feyziyev, Ya. S. ORG: Institute of Physics, Academy of Sciences, Azerbaydzhan SSR (Institut fiziki Akademii nauk AzerbSSR) TITLE: Effect of partial replacement of germanium by lanthanum on the thermoelectric properties of GeTe SOURCE: AN AzerbSSR. Doklady, v. 22, no. 6, 1966, 13-14 TOPIC TAGS: germanium tellurium alloy, germanium base alloy, tellurium containing alloy, thermoelectric property LANTHAN UM ABSTRACT: The effect of partial replacement of germanium by lanthanum on the thermoelectric properties of GeTe has been investigated on specimens of [GeTe] -x-[LaTe]x system alloy, where x is molar portion of the initial compounds in the range x = 0.01-0.08. The maximum thermal emf, maximum lattice heat conjuctivity and carrier mobility, and minimum carrier concentration were found in alloys with x = 0.01. It was established that the hole concentration at x = 0.01 decreases from about  $6 \cdot 10^{20}$  cm<sup>-3</sup> for GeTe to  $4.5 \cdot 10^{20}$  for compounds with x = 0.01 with a simultaneous increase of carrier mobility from 50 cm2/v·sec to about 6' cm2/v·sec. The lattice heat conductivity is similarly affected by the composition presume that with a partial replacement of germanium by lanthanum in the alloys with x = 0.01-0.08, the defect concentration in Ge of GeTe takes lace simultaneously Card 1/2

orig. art.	t process seems to be prevalent at $x = 0-0.01$ and the latter $t = 2 \cdot 0.02$ .  art. has: 3 figures.							
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ACC NRI AP7002838

SOURCE CODE: UR/0233/66/000/004/0076/0081

AUTHOR: Antonov, V. B.; Masirov, Ya. N.

ORG: none

TITLE: Investigation of the thermoelectric properties of GeTe-GeBe solid solutions

SOURCE: AN AzerbSSR. Izvestiya. Seriya fiziko-tekhnicheskikh i matematicheskikh nauk, no. 4, 1966, 76-81

TOPIC TAGS: germanium compound, selenide, telluride, solid solution, thermal emf, electric conductivity, thermal conduction, carrier density, hole mobility

ABSTRACT: In view of the lack of published data on the effect of partially replacing the tellurium atoms in GeTe on the thermoelectric properties of the latter, the authors investigated solid solutions GeTe-GeSe containing 5, 10, and 15% GeSe. The tests consisted of measuring the thermal emf, the electric conductivity, the thermal conductivity, and the carrier density. The results show that with increasing GeSe content the carrier density at room temperature changes very little, but the thermal emf changes appreciably, indicating a change in the effective mass of the state density. The change in thermal emf is from +44 to +50 µv/g. The conductivity decreases from 6000 to 4200 ohm<sup>-1</sup> cm<sup>-1</sup>, and the thermal conductivity decreases from 14.8 to 10.4 cal/cm-sec-deg. Measurements were also made of the temperature dependence of the thermal emf, the electric conductivity, the carrier density and the thermal conductivity, all of which were found to be temperature dependent. In partic-

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# ACC NR: AP7002838

ular, the hole mobility (u) varies like  $T^{1.9}$  and  $T^2$  for the solid solutions with 10% and 15% GeSe, respectively. This disagrees with the value  $u \sim T^{-3.2}$  predicted by the theory for scattering by acoustic lattice vibrations, probably because of the presence of both heavy and light holes in the solid solution. It is concluded that the anomalies observed in the thermoelectric properties of the solid solutions are evidence of the complex energy band structure of germanium telluride. The band structure does not change, but the numerical coefficients do change. It is also concluded that addition of GeSe increases the effectiveness of GeTe as thermocouple material and increases the optimum temperature for their use as thermocouples. The authors thank Professor G. B. Abdullayev for interest in the work and valuable advice. Orig. art. has: 7 figures and 2 tables.

SUB CODE: 20/ SUBM DATE: 00/ ORIG REF: 001/ OTH REF: 001

Card 2/2

Mastrov, 2.1.

Mechanization of coremaking. Lit.proisv. no.21:42 N '61.
(MIRA 14:10)

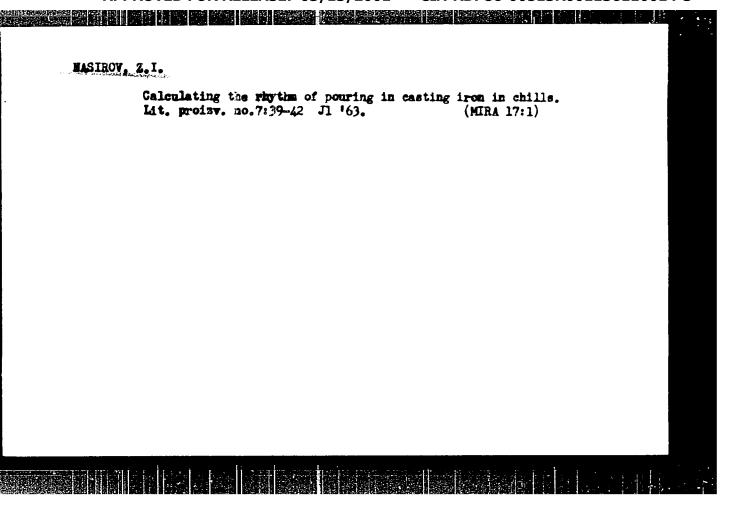
(Coremaking—Equipment and supplies)

NASIROV, Z.I.; KASUMZADE, N.G., red.; AKHMEDOV, S., tekhn. red.

[Highly efficient technological processes in foundry practice]
Vysokoproisvoditel\*nye tekhnologicheskie protessy v chagunoliteinom proisvodstve. Baku, Azerneshr, 1962. 197 p.

(MIRA 15:6)

(Founding)



ABSTRACT: Observation of stable trains produced by mateors from the reference of the original streams were made in August and October of 1959 and 1960. The work was conducted for the purpose of investigating the winds at an altitude of 80-110 km, It was assumed that the trains were moving horizontally. Their altitudes were determined according to the method proposed by A. P. Savrukhin (Isvestiya AN TSSR, seriya FIKhi GM, No. 1, 1963). Parameters for each train were calculated and tabulated. Drift velocities are shown in Enclosure 1. Three-fourths of these velocities were in the range of 0-60 m/sec, and 18% in the range of 0-20 m/sec. Drift velocities greater than 150 m/sec were not shown because of unreliable observations. Since meteoric trains extend vertically for several

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kilometers, they allow an investigation of velocity variations with altitudes. These variations are presented graphically. Drift directions are shown on polar Abstracter's note; gnomonic charts. Southeast-northwest displacements predominated in August 1959; in August 1960 the prevailing direction was to the south and south-northeast-east; in October 1960 - west and northeast-east-southeast. During each of the three observation periods the trains were moving in diagonally opposite directions and the azimuths of drifts varied throughout each train's altitude. Orig. art. has: 1 table and 3 figures.

ASSOCIATION: Fiziko-tekhnicheskiy institut AN Turkmenskoy SSR (Institute of Physics and Technology, Academy of Sciences, Turkmenian SSR)

SUMMITTED: 25Dec62

DATE ACQ: 12Jun63

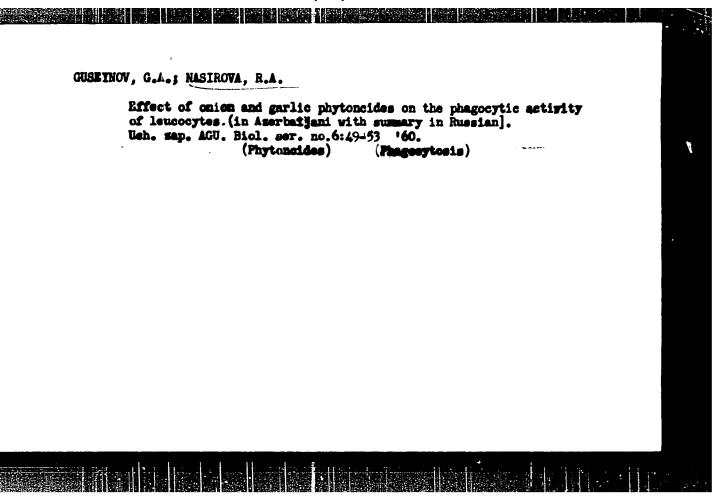
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**Cord** 2/3



DADASHEV, A.G.; NASIMOVA, R.

Effect of ephsdrine on intercoeptive unconditioned metabolic reflexes under normal conditions and in hypothermia. Trudy Sekt. fiziol.AN Azerb.SSR 7:46-52 463. (MIRA 17:10)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001136110014-3"

NASIROVA, T.

Servicing in the presence of preventive maintenance and restoring devices. Isv. AN Aserb. SSR. Ser. fis.-mat. 1 tekh. nauk 60.6: 53-57 '63. (MIRA 17:3)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001136110014-3"

ACC NR: AT6027264 SOURCE CODE: UR/2877/65/000/003/0030/0032 AUTHOR: Nasirova, T. I. ORG: none TITLE: A nonstationary solution for the case of the possible failure of an instrument SOURCE: AN AzerbSSR. Vychislitel'nyy tsentr. Trudy, v. 3. Baku, 1965, 30-32 TOPIC TAGS: reliability theory, stochastic process, Poisson distribution, Laplace transform ABSTRACT: A probability study is made of the case in which an instrument or unit in an industrial process goes out of operation. Each unit is subject to Poisson requirements, and failure may occur during actual operation or during an idle interval. The periods of service are regarded as independent random variables having the same distribution. The following probabilities are found:  $P_{00}(t)$  is the probability that at time t the unit is free and in good repair;  $P_{10}(t)$  is the probability that at time t the unit is in use and in good repair; Pol(t) is the probability that at time t the unit is undergoing repair. Orig. art. has: 20 formulas. SUB CODE: 13.12/ SUBM DATE: none/ OTH REF: 002 Card 1/1

NASKALSKI, JOPRY; SZCZEPKOWSKI, W.

Coupling reaction of bilirubin with diasobensenesulfonic acid. Rocs chemii 37 no.6:629-634 \*63.

1. Department of Physiological Chemistry, School of Medicine, Krakov.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001136110014-3"

NASKALSKI, Jerzy; SZNAJD, Jan

Nucleolytic activity of the serum and urine in leukemias. Pol. arch. med. wewnet. 35 no.4:497-502 '65.

Changes in the nucleolytic activity of the blood serum and urine in leukemic leukocytosis. Ibid.:503-510

1. ZPracowni Biochemicznej III Kliniki Chorob Wewnetrznych Akademii Medycznej w Krakowie (Kierownik: prof. dr. med. J. Aleksandrowicz).

SOURCE CODE: PO/0055/66/007/003/0299/0309 ACC NR: AP6031249 AUTHOR: Aleksandrowicz, Julian (Professor, Director, Doctor); Naskalski, Jerzy; Sznajd, Jan; Urbanczyk, Jan ORG: Department of Biochemistry, Third Clinic of Internal Medicine, Medical Academy, Cracow TITLE: Disorders of ribonuclease activity in chronic granulocytic leukemia SOURCE: Acta medica polona, v. 7, no. 3, 1966, 299-309 TOPIC TAGS: rnase activity, leukemia, disease control, serology, enzymology, enzyme, section blood dince, rebonulesse Studies have been undertaken to elucidate the increased RNase ABSTRACT: activity in the urine of chronic granulocytic leukemia (cgl) patients. Included in the studies are 1) preliminary characterization of the factors responsible for serum and urinary nucleolytic activity; 2) search for interdependence between urinary and serum RNase activity and leukocytosis; 3) correlation between urinary and serum activity; 4) attempt to estimate the importance of the kidneys in disorders of RNase activity in leukemias on the bases of renal-function studies. Thirty-five clinical patients with cgl participated in the experiment; for Card 1/3

## ACC NR. AP6031249

comparison, there were 20 patients with lymphatic leukemia (11) and 20 patients with myeloblastic leukemia (ml). The control consisted of 150 healthy people. The serum and urinary activity was determined by the ordinal method, and later by the spectrophotometric method. AcPase activity was determined by the Beasey method: creatine and serum nonprotein nitrogen were assayed by the methods of Jeffrey and Rappaport, respectively. The 1) Agreement of nucleolytic activity of serum results were and urine with well-known properties of ribonuclease was shown. 2) Serum Mase activity was markedly elevated both in the serum and in the urine of the patients. 3) AcPase activity was comparable in both groups. 4) There was a marked correlation between levels of serum and urinary RNase activity in the patients. In cgl, less pronounced correlation indicated disorders in the excretion of RNase. 5) RNase clearance values in cgl were shown to be neither dependent upon serum Mase e activity nor related to the levels of leukocytosis. 6) A distinct correlation between leukocytes and RNase activity. described by the following formula, was shown: where Y is the serum RNase activity in ug/ml and X is cgl leukocyte count in thousands. Maximal RNase activity occurred in range of low leukocytosis (around 3000) and highest leukocytosis (100, -300,000). Lowest values of Mase occurred

Card 2/3

in range of leukocytosis from 10,000—300,000. Experiments indicate that there is a state of equilibrium between RNase activity and level of leukocytosis in cgl. As a result, high levels of leukocytosis are accompanied by high RNase activity. The occasional drop in the leukocyte level is explained by a negative feedback relationship. This hypothesis supports the view that leukocytes are a source of serum RNase. The authors express thair indebtedness to Miss Olga Sobejko for technical assistance. [WA-50; CBE Mo. 12]

SUB CODE: 06/ SUBH DATE: none/ ORIG REF: 001/ OTH REF: 013/

#### Biochemistry

POLAND

PO/0055/66/007/003/0299/0309

AUTHOR: Aleksandrowicz, Julian (Professor, Director, Doctor); Maskalski, Jersy; Sznajd, Jan; Urbancsyk, Jan

ORG: Department of Biochemistry, Third Clinic of Internal Medicine, Medical Academy, Gracow

TITLE: Disorders of ribonuclease activity in chronic granulocytic leukemia

SOURCE: Acta medica polona, v. 7, no. 3, 1966, 299-309

TOPIC TAGS: rnase activity, leukemia, disease control, serology, enzyme, blood disease, ribonuclease

ABSTRACT: Studies have been undertaken to elucidate the increased RNase activity in the urine of chronic granulocytic leukemia (cgl) patients. Included in the studies are 1) preliminary characterization of the factors responsible for serum and urinary nucleolytic activity; 2) search for interdependence between urinary and serum RNase activity and leukocytosis; 3) correlativity and leukocytosis; 3) correlativity.

nucleolygic activity; 2) starts for all leukocytosis; 3) correlaurisary and serum Elase activity and leukocytosis; 3) correlation between urinary and serum activity; 4) attempt to estimate the importance of the kidneys in disorders of Elase activity in leukemiss on the bases of renal-function studies. Thirty-five

clinical patients with cgl participated in the experiment; for

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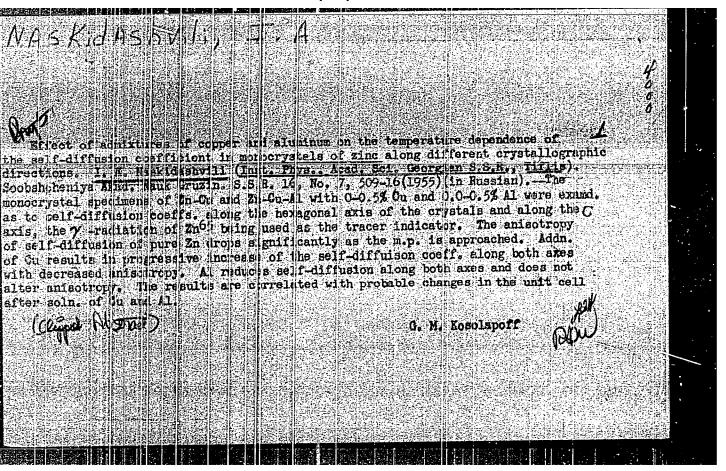
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# NASKIDASHVILI, G.S.

In Adzharistan. Zashch. rast. ot vred. i bol. 8 no.12:12-14 D '63. (MIRA 17:3)

1. Starshiy agronom po zashchite rasteniy Chakvskogo proizvodstvennogo upravleniya.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001136110014-3"



SOV/137-57-11-22217 D

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 11, p 222 (USSR)

AUTHOR: Naskidashvila,

TITLE:

investigation of the Relationship of the Coefficient of Selfdiffusion of Zinc and the Degree of Anisotropy of Self-diffusion to the Concentration of Impurities (Issledovaniye zavisimosti koeffitsiyenta samodiffuzii tsinka i stepeni anizotropii samo-

diffuzii ot kontsentratsii primesey)

ABSTRACT: Bibliographic entry on the Author's dissertation for the de-

gree of Candidate of Physical-Mathematical Sciences, presented

to the Tbilissk. un-t (Tbilisi University), Tbilisi, 1957

ASSOCIATION: Tbilissk. un-t (Tbilisi University), Tbilisi

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<u>S</u> . AUTHORS, Maskedashville I A., and Do . .. V M Officer's of a liver in single of the land of TITLE. Akademiye muk Gruzinsko 2500 - Pstitut fiziki, 1940 -SOURCE 97-104 (In Georgian, with a Le paye Russian resurt) Laboratory lests on the diffusion of silver in Zn single of two principal crystallographic directions as a function of the temperation sion annealing are reported. Single crystals of Zn (99. 18% pire - e. modified Bridgman metrod. From single-crystal rods i-8 mm in dis-which the basal plane (0901) was oriented along the roc txis, is in it mens 25x5x5 mm water out so that the 25x mm. Care either C was perpendicular to the basal plane, that face was covered with a active silver. One- : four-day annealing was performed at 5% 650° ±1°K on pairs of specimens in contact with one another along 100 face. Following a water quench the lateral surfaces were repolished any surface diffusion products, and the diffusion coefficient has been layerwise removal (by rinding) and by measuring the difference scenimen before and after removal of the layer. In the tempera i Card 1/2

Definition of silver in songle crystals of the silver in an exposure and the silver in the silver in an exposure and the silver in the silver in a found of the silver in the silver in

EASKIDASHVILI, I.A.; GVAKHARIYA, V.M.; GORDADZE, G.P.: TOKVI, I.G.

Carma-ray relay with a magnetic amplifier. Biul.tekh.-ekom.inform.Ges.nauch.-isal.inst\_nauch. i tekh.inform. no.4143-44 \*62.

(MIRA 15:7)

(Electric relays)

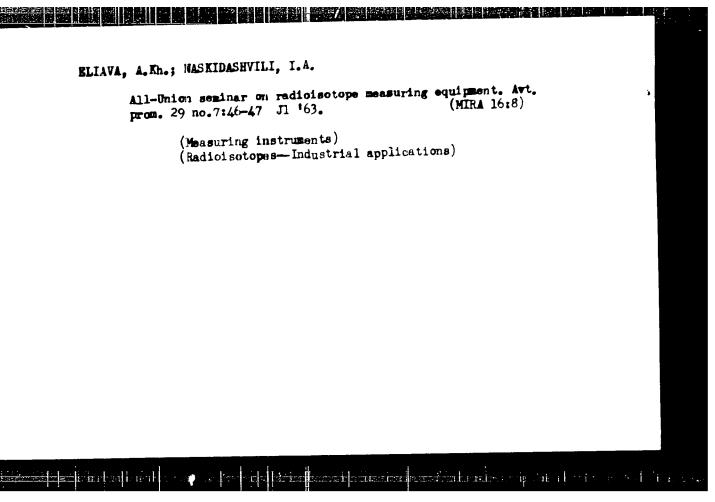
NASKIDASHVILI, I.A.; DOLIDZE, W.M.; MATSURADZE, N.A.

Effect of a small amount of impurities on the self-diffusion rate of mince. Trudy Inst.fis.AN Grus.SSR 8:231-242 '62.

(MIRA 16:2)

(Zinc-Metallurgy)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001136110014-3"



NACKIDASHVILI, I. D., HOGULISHVILI, L. M., GVAKHARIA, V. V., ABACHIDZE, K. A., BOGDAVADZE, N. V., and CHANTLADZE, T. L.

"Neutron Activation Analysis of Manganese Ore"

paper presented at the All-Union Jeminar on the Application of Radioactive Isotopes in Heasurements and Instrument Building, Frunze (Kirgiz SSR), June 1961)

So: Atomnaya Energiya, Vol 11, No 5, Nov 61, pp 468-470

CZECHOSLOV/KI//General Problems of Pathology. Immunity U-1

Abs Jour : Ref Zhur - Biol., No 13, 1958, No 60935

Author : Naskova Vera

Lnst : Title : Adaptive Stage of Heterologous Antigens in the Ontogenesis

of Ducks

Orig Pub : Ceskosl. biol., 1957, 6, No 2, 81-86

Abstract: The adaptation period of duck, in relation to heterologous erythrocytes (geese or chicks erythrocytes) lasts 6 to 13 days after hatching. In order to produce an adaption to a hetercylogous antigen (HA), a sufficient amount of HA has to be introduced, and a long-drawn effect allowed. A single dose introduction of 0.3 milliliters of goose blood is not effective, an introduction of 3 doses (three times) depressed the production of heteroagglutinins. Efforts to prolong the survival of a hetero-transplant by an introduction of homogeneous blood during the adaption period, failed. Homotransplants grafted to ducks during the first 5-7 days, sur-

Card: 1/1 vived.